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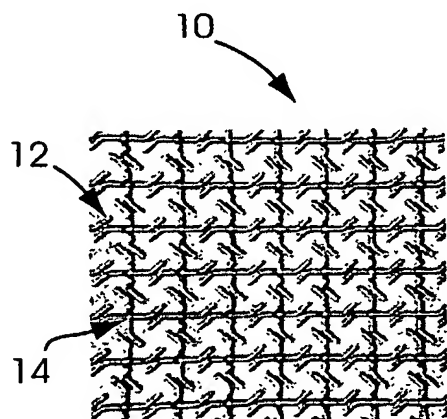
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ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: OPTICAL DEVICE



(57) Abstract: An optical device (10) comprises a substantially planar first layer, which in this example is a layer of gold (14), supported by a silicon substrate layer (12), in the form of a silicon wafer (12). The gold layer (14) is formed with a pattern of solid shaped elements, in the form of (left-handed) gammadions. The gammadions have a size of between 700nm and 4µ and are arranged in a tiled regular square pattern.

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# INTERNATIONAL SEARCH REPORT

International Publication No

PCT/GB 02/05872

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G02F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 526 269 A (COMMISSARIAT ENERGIE ATOMIQUE ; UNIV PARIS CURIE (FR)) 3 February 1993 (1993-02-03)	1-4, 7, 8, 10, 12, 15
Y	page 2, line 37 - page 3, line 13  page 3, line 43 - page 4, line 14; figures 1A, 1B, 2, 3, 4, 7A, 7B examples 1-3  ---  -/--	5, 6, 11, 14



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\* & \* document member of the same patent family

Date of the actual completion of the international search

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## INTERNATIONAL SEARCH REPORT

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SVIRKO Y ET AL: "Layered chiral metallic microstructures with inductive coupling" APPLIED PHYSICS LETTERS, 22 JAN. 2001, AIP, USA, vol. 78, no. 4, pages 498-500, XP002247228 ISSN: 0003-6951	6,9,10, 12-15
Y	page 498, left-hand column, line 1 -right-hand column, line 22; figures 1,2 page 500, right-hand column, line 16-19	5
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A	US 4 948 922 A (VARADAN VASUNDARA V ET AL) 14 August 1990 (1990-08-14) the whole document	1-4,15
Y	WO 99 18459 A (MURATA KOICHI ;SATO HIROMASA (JP); ASAHI GLASS CO LTD (JP)) 15 April 1999 (1999-04-15) abstract	6,11
A	US 4 885 734 A (YUZO ONO) 5 December 1989 (1989-12-05) column 3, line 20-29; figure 1	6,11
Y	WO 01 26192 A (MAXION TECHNOLOGIES INC) 12 April 2001 (2001-04-12) page 3, line 24 -page 4, line 16	14
A	US 6 162 987 A (WILT DAVID M ET AL) 19 December 2000 (2000-12-19) column 2, line 43 -column 3, line 11	14

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 02/05872

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 16  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

Continuation of Box I.2

Claims Nos.: 16

The claims must not, in respect to technical features of the invention, rely on references to the drawings (Rule 6.2 PCT). For such claims a meaningful search is not possible.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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